# JC10 Rec'd PCT/PTO 2 2 MAR 2002

Page 1

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371 INTERNATIONAL APPLICATION NO PCT/PEDIOSIS TITLE OF INVENTION  Display Device and Method  APPLICANTS FOR DO/BOUS Hermann KURN/NRK Michael HEIMRATH; Swanige ROESSNER; and Volker HEIL/WIG  Applicant herwide submits to the United States Designate/Elected Office (DO/EO/US) the following stems and other information:  1. X This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.  2. This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.  3. X This express request to begin national examination procedures (35 U.S.C. 371(t)) at any time rather than delay Examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).  4. X A proper Dermand for International Preliminary Examination was made by the 19th month from the earthest claimed priority data.  5. X A copy of the International Application as filed (35 U.S.C. 371(c)(2)).  5. X A copy of the International Application as filed (35 U.S.C. 371(c)(2)).  6. X A translation of the international Application into English (33 U.S.C. 371(c)(2)).  7. X Amendments to the claims of the International Application into English (33 U.S.C. 371(c)(2)).  8. A are are transmitted by the International Bureau.  9. La are transmitted berewith (required only if not transmitted by the International Bureau).  10. La are are transmitted by the International Bureau.  11. A nanisation of the international Application most filed in the United States Receiving Office (RO/US).  12. A amendments to the claims of the International Bureau.  13. A translation of the international Application into English (33 U.S.C. 371(c)(2)).  14. A unaslation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).  15. A canability of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).  16. A translation of the amendments to the claims under PCT Article 19	FORM		1390 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	951/50921				
DESIGNATED/ BLECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371  INTERNATIONAL APPLICATION NO. INTERNATION APPLI								
CONCERNING A FILING UNDER 35 U.S.C. 371  INTERNATIONAL APPLICATION NO PETERPONO8316  APPLICANTS FOR DOBOUS HOTMAN APPLICATION SO HOTMAN SO HOTMAN APPLICATION SO HOTMAN SO HOTMAN APPLICATION SO HOTMAN SO H				U S APPLICATION NO (1f known, see				
INTERNATIONAL PILICATION NO PCIDE P00/08316  TITLE OF INVENTION  Display Device and Method  APPLICATION NO Display Device and Method  APPLICATION STORY OF THE P00/08316  APPLICATION STORY OF THE P00/08316  APPLICANT(S) FOR DOVEOVUS  Hermann KUEN/NER; Michael HEIMRATH; Swantje ROESSNER; and Volker HELLWIG  Applicant herewith submits to the United States Designated Picted Office (DOEO/US) the following items and other information:  1. X This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.  2. This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.  3. X This express request to begin national examination procedures (5 U.S.C. 371(f)) at any time rather than delay Examination until the expiration of the applicable time limit set in 35 U.S.C. 371(h) at 10 PCT Articles 22 and 39(1).  3. X This express request to begin national examination procedures (5 U.S.C. 371(f)) at 10 PCT Articles 22 and 39(1).  4. X A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.  5. X A copy of the International Application as filed (35 U.S.C. 371(e)(2)).  6. X A translation of the International Application and States (1 United States Receiving Office (ROUS)).  7. X Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(e)(3)).  8. In a retransmitted by the International Application under PCT Article 19 (35 U.S.C. 371(e)(3)).  9. A ranslation of the International Application under PCT Article 19 (35 U.S.C. 371(e)(3)).  9. A ranslation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(e)(3)).  9. A ranslation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(e)(3)).  10. A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(e)(3)).  11. X A proper Demand for International Preliminary Examination under PCT Article 36 (35 U.S.C. 371(e)(5)).  12. An assignment document for recording. A separate cover sheet in co				" <b>"</b> n/				
TITLE OF INVENTION  Display Device and Method  APPLICANT(S) FOR DO/EO/US  Hermann KUENZNER; Michael HEIMRATH; Swantje ROESSNER; and Volker HEILWIG  Applicant herewith submits to the United States Designated/Fileted Office (DO/EO/US) the following items and other information:  1. X This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.  2. This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.  3. X This express request to begin national examination procedures (35 U.S.C. 371(f) at any time rather than delay Examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).  4. X A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.  5. X A copy of the International Application as filed (35 U.S.C. 371(c)(2)).  a. X is the subsect transmitted by the International Bureau.  b. In absolute transmitted by the International Bureau.  c. is not required, as the application was filed in the United States Receiving Office (RO/US)  6. X A translation of the International Application into English (33 U.S.C. 371(c)(2)).  7. X Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)).  8. A translation of the amendments to the claims of the International Bureau.  9. A translation of the amendments to the claims of the International Bureau.  10. A translation of the amendments to the claims of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(3)).  11. A nature of been made, however, the time limit for making such amendments has NOT expired.  12. A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).  13. A This application of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).  14. X A large and the amendment of the international Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371								
APPLICANT(S) FOR DOJECUS  Hermann KUENZNER; Michael HEIMRATH; Swantje ROESSNER; and Volker HELLWIG  Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:    X	INII	SKIN.		September 25, 1999				
APPLICANT(S) FOR DOEO/US  Hermann KUENZKER; Michael HEIMRATH; Swantje ROESSNER; and Volker HELLWIG  Applicant herewith submiss to the United States Designated/Elected Office (DOEO/US) the following items and other information:	TITL	ΕO	F INVENTION					
Hermann KUENZNER; Michael HEIMRATH; Swantje ROESSNER; and Volker HELLMIG  Applicant herewith abunts to the United States Designated/Elected Office (DOE/OUS) the following items and other information:    X								
Application terewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:	APP.	LICA	ANT(S) FOR DO/EO/US  Hormonn KUENZNED: Michael HEIMRATH: Swantie ROESSNER: and Vol	ker HELLWIG				
This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.  This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.  This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.  This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.  This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371(i) at any time rather than delay Examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).  A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.  A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.  A copy of the International Application as filed (35 U.S.C. 371(c)(2)).  a. X is transmitted herewith (required only if not transmitted by the International Bureau).  b. has been transmitted by the International Bureau  c. L is not required, as the application was filed in the United States Receiving Office (RO/US)  A translation of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)).  A a. L are transmitted by the International Bureau.  b. have not been made, however, the time limit for making such amendments has NOT expired.  d. X have not been made, however, the time limit for making such amendments has NOT expired.  d. X have not been made and will not be made.  A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).  A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).  A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).  A A noth or declaration of the international Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).  Item 11. to 16. below concern other document(s) or information included:  A SECOND or SUBSEQUENT prelim	Appl	lican	t herewith submits to the United States Designated/Elected Office (DO/EO/US) the following	g items and other information:				
This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371  This express request to begin natuonal examination procedures (35 U.S.C. 371(f)) at any time rather than delay Examination until the expiration of the applicable time limit set in 35 U.S.C. 371(f)) and PCT Articles 22 and 39(1).  A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.  A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.  A copy of the International Application as filed (35 U.S.C. 371(c)(2)).  a. X is transmitted herewith (required only if not transmitted by the International Bureau).  b. has been transmitted by the International Application was filed in the United States Receiving Office (RO/US)  A translation of the International Application into English (35 U.S.C. 371(c)(2)).  A mendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))  a. a retransmitted herewith (required only if not transmitted by the International Bureau).  b. have been transmitted berewith (required only if not transmitted by the International Bureau).  b. have not been made: however, the time limit for making such amendments has NOT expired.  d. X have not been made and will not be made.  A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).  An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4))  A translation of the amences to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).  Item 11. to 16, below concern other document(s) or information included:  A SECOND or SUBSEQUENT preliminary amendment.  A SECOND or SUBSEQUENT preliminary amendment.  A change of power of attorney and/or address letter.  A change of power of attorney and/or address letter.	1.7.6							
3. X Inis express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay Examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).  4. X A proper Demand for International Preliminary Examination was made by the 19th month from the carliest claimed priority date.  5. X A copy of the International Application as filed (35 U.S.C. 371(c)(2)).  a. X is transmitted herewith (required only if not transmitted by the International Bureau).  b. In as been transmitted by the International Bureau  c. In not required, as the application was filed in the United States Receiving Office (RO/US)  6. X A translation of the International Application into English (35 U.S.C. 371(c)(2)).  7. X Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))  a. In retransmitted herewith (required only if not transmitted by the International Bureau).  b. have been transmitted by the International Bureau.  c. have not been made; however, the time limit for making such amendments has NOT expired.  d. X have not been made; however, the time limit for making such amendments has NOT expired.  8. A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).  9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4))  10. A translation of the amenexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).  11. X An Information Disclosure Statement under 37 CFR 1.97 and 1.98.  12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.  13. X A FIRST preliminary amendment.  14. X A substitute specification and marked-up copy thereof.  15. A change of power of attorney and/or address letter.  16. Other items or information:  a. Application Data Sheet	1.	X	This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.					
3. X Inis express request to begin national examination procedures (35 U.S.C. 371(f) at any time rather than delay Examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).  4. X A proper Demand for International Preliminary Examination was made by the 19th month from the carliest claimed priority date.  5. X A copy of the International Application as filed (35 U.S.C. 371(c)(2)).  a. a. X is transmitted herewith (required only if not transmitted by the International Bureau).  b. has been transmitted by the International Bureau  c. is not required, as the application was filed in the United States Receiving Office (RO/US)  6. X A translation of the International Application into English (35 U.S.C. 371(c)(2)).  a. a. are transmitted herewith (required only if not transmitted by the International Bureau).  b. have been transmitted by the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))  a. a. are transmitted herewith (required only if not transmitted by the International Bureau).  b. have been transmitted by the International Bureau.  c. have not been made; however, the time limit for making such amendments has NOT expired.  d. X have not been made; however, the time limit for making such amendments has NOT expired.  8. A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).  9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4))  10. A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(3)).  11. X An Information Disclosure Statement under 37 CFR 1.97 and 1.98.  12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.  13. X A FIRST preliminary amendment.  14. X A substitute specification and marked-up copy thereof.  15. A change of power of attorney and/or address letter.  16. Other items or information:  a. Application Data Sheet								
until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).  4. X A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.  5. X A copy of the International Application as filed (35 U.S.C. 371(c)(2)).  6. X A translation of the International Application was filed in the United States Receiving Office (RO/US)  6. X A translation of the International Application into English (35 U.S.C. 371(c)(2)).  7. X Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))  8. a are transmitted herewith (required only if not transmitted by the International Bureau).  9. b have been transmitted by the International Bureau.  10. c have not been made; however, the time limit for making such amendments has NOT expired.  11. d A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).  12. A noath or declaration of the inventor(s) (35 U.S.C. 371(c)(4))  13. A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).  14. The Internation Disclosure Statement under 37 CFR 1.97 and 1.98.  15. A FIRST preliminary amendment.  16. A SECOND or SUBSEQUENT preliminary amendment.  18. A change of power of attorney and/or address letter.  19. Other items or information:  10. Other items or information:  11. A change of power of attorney and/or address letter.	2.		This is a SECOND or SUBSEQUENT submission of items concerning a filing under	15 U.S.C. 371				
until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).  4. X A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.  5. X A copy of the International Application as filed (35 U.S.C. 371(c)(2)).  6. X A translation of the International Application was filed in the United States Receiving Office (RO/US)  6. X A translation of the International Application into English (35 U.S.C. 371(c)(2)).  7. X Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))  8. a are transmitted herewith (required only if not transmitted by the International Bureau).  9. b have been transmitted by the International Bureau.  10. c have not been made; however, the time limit for making such amendments has NOT expired.  11. d A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).  12. A noath or declaration of the inventor(s) (35 U.S.C. 371(c)(4))  13. A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).  14. The Internation Disclosure Statement under 37 CFR 1.97 and 1.98.  15. A FIRST preliminary amendment.  16. A SECOND or SUBSEQUENT preliminary amendment.  18. A change of power of attorney and/or address letter.  19. Other items or information:  10. Other items or information:  11. A change of power of attorney and/or address letter.			05 M G 2010 4 1 1					
4. X A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.  5. X A copy of the International Application as filed (35 U.S.C. 371(c)(2)).  a. X is transmitted herewith (required only if not transmitted by the International Bureau).  b. has been transmitted by the International Bureau  c. is not required, as the application was filed in the United States Receiving Office (RO/US)  6. X A translation of the International Application into English (35 U.S.C. 371(c)(2)).  7. X Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))  a. are transmitted by the International Bureau.  b. have been transmitted by the International Bureau.  c. have not been made; however, the time limit for making such amendments has NOT expired.  d. X have not been made and will not be made.  8. A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).  9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4))  10. A translation of the amenexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).  11. X An Information Disclosure Statement under 37 CFR 1.97 and 1.98.  12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.  13. X A FIRST preliminary amendment.  A SECOND or SUBSEQUENT preliminary amendment.  A A change of power of attorney and/or address letter.  14. X A substitute specification and marked-up copy thereof.	3.	X	This express request to begin national examination procedures (35 U.S.C. 371(1) at any time	and 39(1).				
date.			until the expiration of the applicable time finite set in 33 0.3.C. 371(b) and 1 C 1 7 titletes 22	und 35(1).				
date.	4	x	A proper Demand for International Preliminary Examination was made by the 19th month f	rom the earliest claimed priority				
a. X is transmitted herewith (required only if not transmitted by the International Bureau).  b. has been transmitted by the International Bureau  c. is not required, as the application was filed in the United States Receiving Office (RO/US)  6. X A translation of the International Application into English (35 U.S.C. 371(c)(2)).  7. X Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))  a. are transmitted herewith (required only if not transmitted by the International Bureau).  b. have been transmitted by the International Bureau.  c. have not been made; however, the time limit for making such amendments has NOT expired.  d. X have not been made and will not be made.  8. A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).  9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4))  10. A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).  11. X An Information Disclosure Statement under 37 CFR 1.97 and 1.98.  12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.  13. X A FIRST preliminary amendment.  14. X A substitute specification and marked-up copy thereof.  15. A change of power of attorney and/or address letter.  16. Other items or information:  a. Application Data Sheet	''							
a. X is transmitted herewith (required only if not transmitted by the International Bureau).  b. has been transmitted by the International Bureau  c. is not required, as the application was filed in the United States Receiving Office (RO/US)  6. X A translation of the International Application into English (35 U.S.C. 371(c)(2)).  7. X Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))  a. are transmitted herewith (required only if not transmitted by the International Bureau).  b. have been transmitted by the International Bureau.  c. have not been made; however, the time limit for making such amendments has NOT expired.  d. X have not been made and will not be made.  8. A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).  9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4))  10. A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).  11. X An Information Disclosure Statement under 37 CFR 1.97 and 1.98.  12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.  13. X A FIRST preliminary amendment.  14. X A substitute specification and marked-up copy thereof.  15. A change of power of attorney and/or address letter.  16. Other items or information:  a. Application Data Sheet								
b. has been transmitted by the International Bureau c. is not required, as the application was filed in the United States Receiving Office (RO/US)  6. X A translation of the International Application into English (35 U.S.C. 371(c)(2)).  7. X Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. are transmitted herewith (required only if not transmitted by the International Bureau). b. have been transmitted by the International Bureau. c. have not been made; however, the time limit for making such amendments has NOT expired. d. X have not been made and will not be made.  8. A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).  9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4))  10. A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).  11. X An Information Disclosure Statement under 37 CFR 1.97 and 1.98.  12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.  13. X A FIRST preliminary amendment.  A SECOND or SUBSEQUENT preliminary amendment.  14. X A substitute specification and marked-up copy thereof.  15. A change of power of attorney and/or address letter.  16. Other items or information: a. Application Data Sheet	5.	X	A copy of the International Application as filed (35 U.S.C. 371(c)(2)).					
c. is not required, as the application was filed in the United States Receiving Office (RO/US)  6. X A translation of the International Application into English (35 U.S.C. 371(e)(2)).  7. X Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))  a. are transmitted herewith (required only if not transmitted by the International Bureau).  b. have been transmitted by the International Bureau.  c. have not been made; however, the time limit for making such amendments has NOT expired.  d. X have not been made and will not be made.  8. A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(e)(3)).  9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4))  10. A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).  Item 11. to 16. below concern other document(s) or information included:  11. X An Information Disclosure Statement under 37 CFR 1.97 and 1.98.  12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.  13. X A FIRST preliminary amendment.  14. X A substitute specification and marked-up copy thereof.  15. A change of power of attorney and/or address letter.  16. Other items or information:  a. Application Data Sheet				eau).				
6. X A translation of the International Application into English (35 U.S.C. 371(c)(2)).  7. X Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))  8. a. are transmitted herewith (required only if not transmitted by the International Bureau).  9. b. have been transmitted by the International Bureau.  10. c. have not been made; however, the time limit for making such amendments has NOT expired.  11. d. X have not been made and will not be made.  12. A translation of the amences to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).  13. X A first preliminary amendment.  14. X A substitute specification and marked-up copy thereof.  15. A change of power of attorney and/or address letter.  16. Other items or information:  a. Application Data Sheet				(DO/LIC)				
7. X Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))  a.   are transmitted herewith (required only if not transmitted by the International Bureau).  b.   have been transmitted by the International Bureau.  c.   have not been made; however, the time limit for making such amendments has NOT expired.  d.   X   have not been made and will not be made.  8.   A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).  9.   An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4))  10.   A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).  11.   X   An Information Disclosure Statement under 37 CFR 1.97 and 1.98.  12.   An assignment document for recording. A separate cover sheet in comphiance with 37 CFR 3.28 and 3.31 is included.  13.   X   A FIRST preliminary amendment.  14.   X   A substitute specification and marked-up copy thereof.  15.   A change of power of attorney and/or address letter.  16.   Other items or information:  a. Application Data Sheet	ļ		c. is not required, as the application was filed in the United States Receiving Office	: (RO/US)				
7. X Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))  a.   are transmitted herewith (required only if not transmitted by the International Bureau).  b.   have been transmitted by the International Bureau.  c.   have not been made; however, the time limit for making such amendments has NOT expired.  d.   X   have not been made and will not be made.  8.   A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).  9.   An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4))  10.   A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).  11.   X   An Information Disclosure Statement under 37 CFR 1.97 and 1.98.  12.   An assignment document for recording. A separate cover sheet in comphiance with 37 CFR 3.28 and 3.31 is included.  13.   X   A FIRST preliminary amendment.  14.   X   A substitute specification and marked-up copy thereof.  15.   A change of power of attorney and/or address letter.  16.   Other items or information:  a. Application Data Sheet			1. F. C. 1. C. 1. C. 271(a)(2))					
a.   are transmitted herewith (required only if not transmitted by the International Bureau).	6.	X	A translation of the International Application into English (35 U.S.C. 371(c)(2)).					
a.   are transmitted herewith (required only if not transmitted by the International Bureau).		7.	A section of the International Application under PCT Article 19 (35 11 S.C.	371(c)(3))				
b. have been transmitted by the International Bureau. c. have not been made; however, the time limit for making such amendments has NOT expired. d. X have not been made and will not be made.  8. A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).  9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4))  10. A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).  11. X An Information Disclosure Statement under 37 CFR 1.97 and 1.98.  12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.  13. X A FIRST preliminary amendment.  A SECOND or SUBSEQUENT preliminary amendment.  14. X A substitute specification and marked-up copy thereof.  15. A change of power of attorney and/or address letter.  16. Other items or information: a. Application Data Sheet	/.	X	Amendments to the claims of the international Application under 101 Attack by (35 class)	rreau).				
c. have not been made; however, the time limit for making such amendments has NOT expired.  d. X have not been made and will not be made.  8. A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).  9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4))  10. A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).  11. X An Information Disclosure Statement under 37 CFR 1.97 and 1.98.  12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.  13. X A FIRST preliminary amendment.  14. X A substitute specification and marked-up copy thereof.  15. A change of power of attorney and/or address letter.  16. Other items or information:  a. Application Data Sheet		-						
d. X have not been made and will not be made.  8. A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).  9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4))  10. A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).  11. To 16, below concern other document(s) or information included:  11. X An Information Disclosure Statement under 37 CFR 1.97 and 1.98.  12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.  13. X A FIRST preliminary amendment.  A SECOND or SUBSEQUENT preliminary amendment.  14. X A substitute specification and marked-up copy thereof.  15. A change of power of attorney and/or address letter.  16. Other items or information:  a. Application Data Sheet			have not been made; however the time limit for making such amendments has l	NOT expired.				
8. A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).  9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4))  10. A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).  11. to 16. below concern other document(s) or information included:  11. X An Information Disclosure Statement under 37 CFR 1.97 and 1.98.  12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.  13. X A FIRST preliminary amendment.  A SECOND or SUBSEQUENT preliminary amendment.  14. X A substitute specification and marked-up copy thereof.  15. A change of power of attorney and/or address letter.  16. Other items or information:  a. Application Data Sheet		-						
9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4))  10. A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).  Item 11. to 16. below concern other document(s) or information included:  11. X An Information Disclosure Statement under 37 CFR 1.97 and 1.98.  12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.  13. X A FIRST preliminary amendment.  A SECOND or SUBSEQUENT preliminary amendment.  14. X A substitute specification and marked-up copy thereof.  15. A change of power of attorney and/or address letter.  16. Other items or information:  a. Application Data Sheet	-		u. A little not obtaining the					
9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4))  10. A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).  Item 11. to 16. below concern other document(s) or information included:  11. X An Information Disclosure Statement under 37 CFR 1.97 and 1.98.  12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.  13. X A FIRST preliminary amendment.  A SECOND or SUBSEQUENT preliminary amendment.  14. X A substitute specification and marked-up copy thereof.  15. A change of power of attorney and/or address letter.  16. Other items or information:  a. Application Data Sheet	8.		A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).					
10. A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).  Item 11. to 16. below concern other document(s) or information included:  11. X An Information Disclosure Statement under 37 CFR 1.97 and 1.98.  12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.  13. X A FIRST preliminary amendment.  14. X A substitute specification and marked-up copy thereof.  15. A change of power of attorney and/or address letter.  16. Other items or information:  a. Application Data Sheet								
Item 11. to 16. below concern other document(s) or information included:   11.	9.		An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4))					
Item 11. to 16. below concern other document(s) or information included:   11.		1						
11. X An Information Disclosure Statement under 37 CFR 1.97 and 1.98.  12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.  13. X A FIRST preliminary amendment.  A SECOND or SUBSEQUENT preliminary amendment.  14. X A substitute specification and marked-up copy thereof.  15. A change of power of attorney and/or address letter.  16. Other items or information:  a. Application Data Sheet	10.		A translation of the annexes to the International Preliminary Examination Report under PC	Γ Article 36 (35 U.S.C. 371(c)(5)).				
11. X An Information Disclosure Statement under 37 CFR 1.97 and 1.98.  12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.  13. X A FIRST preliminary amendment.  A SECOND or SUBSEQUENT preliminary amendment.  14. X A substitute specification and marked-up copy thereof.  15. A change of power of attorney and/or address letter.  16. Other items or information:  a. Application Data Sheet								
12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.  13. X A FIRST preliminary amendment.  A SECOND or SUBSEQUENT preliminary amendment.  14. X A substitute specification and marked-up copy thereof.  15. A change of power of attorney and/or address letter.  16. Other items or information:  a. Application Data Sheet	Iter	n 11	. to 16. below concern other document(s) or information included:					
12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.  13. X A FIRST preliminary amendment.  A SECOND or SUBSEQUENT preliminary amendment.  14. X A substitute specification and marked-up copy thereof.  15. A change of power of attorney and/or address letter.  16. Other items or information:  a. Application Data Sheet			07 CFD 107 1100					
13. X A FIRST preliminary amendment.  A SECOND or SUBSEQUENT preliminary amendment.  14. X A substitute specification and marked-up copy thereof.  15. A change of power of attorney and/or address letter.  16. Other items or information:  a. Application Data Sheet	11.	X	An Information Disclosure Statement under 37 CFR 1.97 and 1.98.					
13. X A FIRST preliminary amendment.  A SECOND or SUBSEQUENT preliminary amendment.  14. X A substitute specification and marked-up copy thereof.  15. A change of power of attorney and/or address letter.  16. Other items or information:  a. Application Data Sheet	-	1	1 02 CPD 2 00 12 21 i= i=-1-1-1					
A SECOND or SUBSEQUENT preliminary amendment.  14. X A substitute specification and marked-up copy thereof.  15. A change of power of attorney and/or address letter.  16. Other items or information:  a. Application Data Sheet	12.	-	An assignment document for recording. A separate cover sheet in comphance with 37 CFR	5.26 and 5.51 is included.				
A SECOND or SUBSEQUENT preliminary amendment.  14. X A substitute specification and marked-up copy thereof.  15. A change of power of attorney and/or address letter.  16. Other items or information:  a. Application Data Sheet	12	177	A FIDST proliminary amendment					
14. X A substitute specification and marked-up copy thereof.  15. A change of power of attorney and/or address letter.  16. Other items or information:  a. Application Data Sheet	13.	$+^{x}$	A FIRS1 preliminary amendment.					
14. X A substitute specification and marked-up copy thereof.  15. A change of power of attorney and/or address letter.  16. Other items or information:  a. Application Data Sheet		-	A SECOND or SUBSECUENT preliminary amendment					
15. A change of power of attorney and/or address letter.  16. Other items or information:  a. Application Data Sheet		+	A SECOND OF SUBSEQUENT premimary attendment.					
15. A change of power of attorney and/or address letter.  16. Other items or information:  a. Application Data Sheet	14	V	A substitute specification and marked-up copy thereof.					
16. Other items or information:  a. Application Data Sheet	17.	V ozgostata obsorutara al sak)						
16. Other items or information:  a. Application Data Sheet	15.	15. A change of power of attorney and/or address letter.						
a. Application Data Sheet	-	-						
a. Application Data Sheet	16.	-	Other items or information:					
		_						

# JC13 Rec'd PCT/PTO 2 2 MAR 2002

Page 2

Fire innition	27 CCD 1 6	INTERNATIONAL APPLICATION	INO	ATTORNEY'S DOCKET NUM	BER 1 agc 2	
U.S. APPLICATION NO (if known,		INTERNATIONAL APPLICATION	LINO			
10/088741 PCT/EP00/08316			08316	951/50921		
17. [X] The following	fees are submitted:	<u> </u>		,		
17. [21] The following	, 2000 000 0000000000000000000000000000			CALCULATIONS	PTO USE ONLY	
Basic National Fee (37 C	CFR 1.492(a)(1)-(5))·			CHECCENTIONS	I TO OSE ONE I	
Search Report has been	prepared by the EPO or J	PO	\$ 890.00	\$ 890.00		
International preliminary	examination fee paid to	USPTO (37 CFR 1.482)	\$ 690.00			
No international prelimit	nary examination fee paid	l to USPTO (37 CFR 1.48	2)			
but international search i	fee paid to USPTO (37 Cl	FR 1.445(a)(2)	\$ 740.00			
	liminary examination fee					
International search fee	(37CFR 1.445(a)(2) paid	to USPTO	\$ 1000.00			
	examination fee paid to		¢ 100.00			
and all claims satisfied p	provisions of PCT Article	33(2)-(4)	\$ 100.00			
	ENTER AP	PROPRIATE BASIC F	EE AMOUNT =	\$ 890.00		
Surcharge of \$130.00 fo		eclaration later than 2				
months from the earliest	claimed priority date (37	CFR 1.492(e)).		\$ 130.00		
Claims	Number Filed	Number Extra	Rate			
T . 1 Cl	24 20	4	X \$18.00	\$ 72.00		
Total Claims	24 - 20 =	4	X \$18.00	\$ 72.00		
Independent Claims	3 - 3 =	3	X \$84.00	\$		
Multiple dependent clair	ms(s) (if applicable)		+ \$280.00	\$		
	Т	OTAL OF ABOVE CAI	LCULATIONS=	\$1,092.00		
Applicant claims Small	Entity Status (See 37 CFI					
Reduction by 1/2 for fili	ng by small entity, if app	licable.		\$		
			-		10000	
			SUBTOTAL =	\$1,092.00		
Processing fee of \$130.0	00 for furnishing the Engl	ish translation later than	□ 20 🖾 30			
months from the earliest	claimed priority date (37	7 CFR 1.492(f)).		\$		
		TOTAL NAT	ΓΙΟΝΑL FEE =	\$1,092.00		
Fee for recording the en	closed assignment (37 CF	FR 1.21(h)). The assignment		\$1,03 <b>2</b> .00		
accompanied by an appr	copriate cover sheet (37 C	FR 3.28,3.31). \$40.00 per	property +	\$		
7 7 11					1.16.12.	
		TOTAL FEI	E ENCLOSED =	\$1,092.00		
				Amount to be:		
				refunded	\$	
				Chana d		
				Charged	\$	
		.1 (41) (2 ) 1 1				
a. A check in the	e amount of \$1,092.00 for	r the filing fee is enclosed	£ 40.0010m	the above foor. A dun	licate conv of this	
b. Please charge my Deposit Account No in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed.						
c. The Commissioner is hereby authorized to charge any additional fees, which may be required, or credit any overpayment						
to Deposit Account No. 05-1323 (Attorney Docket # 951/50921). A duplicate copy of this sheet is enclosed.						
NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.						
must be filed and grante	ed to restore the application	on to pending status.		2 110		
SEND ALL CORRESP	ONDENCE TO:		··	anield	were.	
Crowell & Moring				SIGNATURE	<del></del>	
Intellectual Proper				Donald D. Evenson		
P.O. Box 14300	- <u>/</u>			NAME		
Washington, D.C.	20044-4300			26,160		
Tel. No. (202) 624-2500				REGISTRATION NUMBER		
Fax No. (202) 628				March 22, 2002		
1				DATE		

DDE:SZ:tlm (CAM # 80437 790)

JC13 PCT/PTO 2 2 MAR 2002

# APPLICATION DATA SHEET

#### INVENTOR INFORMATION

Inventor one given name:

Family name:

Postal address line one:

City:

Country:

Postal or Zip Code:

City of residence:

Country of residence:

Citizenship Country:

**2-**0**□** Inventor two given name:

Family name:

Postal address line one:

City: Country:

Postal or Zip Code:

City of residence:

Country of residence:

Citizenship Country:

Inventor three given name:

Family name:

Postal address line one:

City:

Country:

Postal or Zip Code:

City of residence:

Country of residence:

Citizenship Country:

44-00 Inventor four given name:

Family name:

Postal address line one:

City:

Country:

Postal or Zip Code:

City of residence:

Country of residence:

Citizenship Country:

Hermann

KUENZNER

Rennweg 10

Freising DEX Federal Republic of Germany

D-85356

Freising

Federal Republic of Germany

Federal Republic of Germany

Michael

HEIMRATH

Tonwerkstrasse 15

Fuerstenfeldbruck OEX

Federal Republic of Germany

D-82256

Fuerstenfeldbruck

Federal Republic of Germany

Federal Republic of Germany

<u>Swantje</u>

ROESSNER

Seybothstrasse 68

Muenchen DEX
Federal Republic of Germany

D-81545

Muenchen

Federal Republic of Germany

Federal Republic of Germany

Volker\_\_

HELLWIG

Oesterfeldstrasse 11

Stuttgart OFX
Federal Republic of Germany

D-70563

Stuttgart

Federal Republic of Germany

Federal Republic of Germany

# CORRESPONDENCE INFORMATION

Correspondence customer number: 23911

## APPLICATION INFORMATION

Title line one: DISPLAY DEVICE AND METHOD

Total drawing sheets: 2
Formal drawings: Yes
Application type: Utility

Docket Number: 951/50921

## REPRESENTATIVE INFORMATION

Representative customer number: 23911

# **CONTINUITY INFORMATION**

This application is a: national stage of Application one: PCT/EP00/08316 Filing date: 26 August 2000

## PRIOR FOREIGN APPLICATIONS

Foreign application one: 199 46 012.4

Filing date: 25 September 1999

Country: Federal Republic of Germany

Priority claimed: Yes

Attorney Docket: 951/50921

**PATENT** 

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

HERMANN KUENZNER ET AL

Serial No.:

TO BE ASSIGNED

PCT NO.: PCT/EP00/08316

Filed:

March 22, 2002

Title:

DISPLAY DEVICE AND METHOD

# PRELIMINARY AMENDMENT

Box Non-Fee Amendment Commissioner for Patents Washington, D.C. 20231

Sir:

Please enter the following amendments to the specification, claims and abstract prior to the examination of the application.

# **IN THE SPECIFICATION:**

A substitute specification and a marked-up copy thereof is attached herewith.

## IN THE CLAIMS:

Please amend Claims 1-9 as follows (a marked-up version of the amended claims is attached hereto):

1. (Amended) A display device having a display unit, comprising a scale with graphic information and an indicator element which is aligned as a function of at least one input parameter with a position of the scale, wherein a

PCT NO.: PCT/EP00/08316 Attorney Docket: 951/50921

display of the graphic information in an area around a momentary position of the indicator element is emphasized in comparison with a normal display.

- 2. (Amended) The display device according to Claim 1, wherein the area is selected as a function of the input parameter.
- 3. (Amended) The display device according to Claim 1, wherein the display of the graphic information within this area is selected in a predetermined manner.
- 4. (Amended) The display device according to Claim 3, wherein the change is defined by at least one of an enlargement, a different contrast, a different color and shift.
- 5. (Amended) The display device according to Claim 2, wherein a control device is provided which receives the input parameter and is connected with the display unit.
- 6. (Amended) The display device according to Claim 1, wherein a video screen display is used as the display unit.
- 7. (Amended) The display device according to claim 1, wherein the display unit is configured as a round instrument.
- 8. (Amended) The display device according to Claim 1, wherein the graphic information is at least one of letter and number information.
- 9. (Amended) The display device according to Claim 1, wherein the display unit includes a speedometer of a vehicle.

PCT NO.: PCT/EP00/08316 Attorney Docket: 951/50921

Please add the following new claims:

10. (New) A display device comprising:

a scale having graphic information; and

an indicator element, the position of the indicator element relative to the scale being a function of a parameter to be displayed, wherein the graphic information in an area around the position of the indicator element is emphasized.

11. (New) The display device according to Claim 10,

wherein a characteristic of the area varies with a characteristic of the parameter.

12. (New) The display device according to Claim 11,

wherein the size of the area varies with the rate of change of the parameter.

- 13. (New) The display device according to Claim 11,
- wherein the location of the area varies with the rate of change of the parameter.
  - 14. (New) The display device according to Claim 10,wherein the graphic information in the area is enlarged.
  - 15. (New) The display device according to Claim 10,

wherein the graphic information in the area is emphasized by a different contrast.

PCT NO.: PCT/EP00/08316 Attorney Docket: 951/50921

16. (New) The display device according to Claim 10,

wherein the graphic information in the area is emphasized by a different color.

17. (New) The display device according to Claim 10,

wherein the graphic information includes at least one of letter and number information.

18. (New) A method of displaying a parameter on a display device including a scale with graphic information, and an indicator element, the position of the indicator element relative to the scale being a function of a parameter, the method comprising:

emphasizing the graphic information in an area around the position of the indicator element.

19. (New) The method according to Claim 18, comprising:

varying a characteristic of the area with a characteristic of the parameter.

20. (New) The method according to Claim 19,

wherein the step of varying the characteristic of the area includes varying the size of the area with the rate of change of the parameter.

21. (New) The method according to Claim 19,

wherein the step of varying the characteristic of the area includes varying the location of the area with the rate of change of the parameter.

initiates from a company to the

PCT NO.: PCT/EP00/08316 Attorney Docket: 951/50921

22. (New) The method according to Claim 18,

wherein the step of emphasizing the graphic information includes enlarging the graphic information in the area.

23. (New) The method according to Claim 18,

wherein the step of emphasizing the graphic information includes emphasizing the graphic information by a different contrast.

24. (New) The method according to Claim 18,

wherein the step of emphasizing the graphic information includes emphasizing the graphic information by a different color.

## IN THE ABSTRACT:

Please substitute the new Abstract of the Disclosure submitted herewith on a separate page for the original Abstract presently in the application.

(Applicant's Remarks are set forth hereinbelow, starting on the following page.)

PCT NO.: PCT/EP00/08316 Attorney Docket: 951/50921

# **REMARKS**

Entry of the amendments to the specification, claims and abstract before examination of the application is respectfully requested.

If there are any questions regarding this Preliminary Amendment or this application in general, a telephone call to the undersigned would be appreciated since this should expedite the prosecution of the application for all concerned.

Respectfully submitted,

March 22, 2002

Donald D. Evenson Registration No. 26,160

Song Zhu

Registration No. 44,420

CROWELL & MORING, LLP Intellectual Property Group P.O. Box 14300 Washington, DC 20044-4300 Telephone No.: (202) 624-2500 Facsimile No.: (202) 628-8844

DDE:SZ:tlm

(CAM #: 80437.790)

A CHARLE THE LEFT ENDING

PCT NO.: PCT/EP00/08316 Attorney Docket: 951/50921

VERSION WITH MARKINGS TO SHOW CHANGES MADE

Claims 1-9 have been amended as follows:

1. (Amended) [Display] A display device having a display unit [(10)],

[which comprises] comprising a scale with graphic information [(11)] and an

indicator element [(13)] which [can be] is aligned as a function of at least one

input parameter with a position of the scale [(11)], [characterized in that the]

wherein a display of the graphic information in an area [(B)] around [the] a

momentary position of the indicator element [(13)] is emphasized in comparison

[to the] with a normal display.

2. (Amended) [Display] The display device according to Claim 1,

[characterized in that] wherein the area [(B) can be] is selected as a function of

the input parameter [information (n, v)].

3. (Amended) [Display] The display device according to Claim 1 [or

2], [characterized in that] wherein the display of the graphic information within

this area [(B) can be] is selected in a [defined] pre-determined manner.

4. (Amended) [Display] The display device according to [one of the

preceding claims] Claim 3, [characterized in that] wherein the change is defined

by at least one of an enlargement, a different contrast, a different color and [/or] a

shift.

5. (Amended) [Display] The display device according to [one of the

preceding claims] Claim 2, [characterized in that] wherein a control device [(12)]

- 7 -

THE REPORT OF THE PARTY OF THE

PCT NO.: PCT/EP00/08316

Attorney Docket: 951/50921

is provided which receives the input <u>parameter</u> [parameters (v, n)] and is connected with the display unit [(10)].

6. (Amended) [Display] The display device according to [one of the preceding claims] Claim 1, [characterized in that] wherein a video screen display

is used as the display unit [(10)].

7. (Amended) [Display] The display device according to [one of the preceding claims] claim 1, [characterized in that] wherein the display unit [(10)] is [constructed in the shape of] configured as a round instrument.

8. (Amended) [Display] The display device according to [one of the preceding claims] Claim 1, [characterized in that] wherein the graphic information is at least one of [information is] letter and [/or] number information.

9. (Amended) [Display] The display device according to [one of the preceding claims] Claim 1, [characterized in that] wherein the display unit [(10) is] includes a speedometer of a vehicle.

Attorney Docket: 951/50921

PATENT

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

HERMANN KUENZNER ET AL

Serial No.:

TO BE ASSIGNED

PCT NO.: PCT/EP00/08316

Filed:

March 22, 2002

Title:

DISPLAY DEVICE AND METHOD

# SUBMISSION OF SUBSTITUTE SPECIFICATION

**Assistant Commissioner for Patents** Washington, D.C. 20231

Sir:

Attached is a Substitute Specification and a marked-up copy of the original specification. I certify that said substitute specification contains no new matter and includes the changes indicated in the marked-up copy of the original specification.

Respectfully submitted,

March 22, 2002

Donald D. Evenson

Registration No. 26,160

Song Zhu

Registration No. 44,420

CROWELL & MORING, LLP Intellectual Property Group P.O. Box 14300 Washington, DC 20044-4300 Telephone No.: (202) 624-2500

Facsimile No.: (202) 628-8844

DDE:SZ:tlm

(CAM #: 80437.790)

100es74104988741

JC13 Rec'd PCT/PTO 2 2 MAR 2002

Substitute Specification – PCT/EP00/08316 Attorney Docket No. 951/50921

#### DISPLAY DEVICE AND METHOD

# BACKGROUND AND SUMMARY OF THE INVENTION

The invention relates to a display device and a display method.

Display devices with scales, which graphically display information, are used in all fields of technology and inform people of many different conditions of machines and equipment and about many different circumstances. A very narrow application involves the vehicle, where vehicle operating conditions are provided to the vehicle operator by display devices. Although it will be described relative to this field, the present invention should not be so limited.

How much space for the transmission of information is available depending on the local situations and the extent of the display. In the case of vehicles, for example, an increasing number of scale marks must be shown in the area of speedometer readings as a result of higher maximum speeds. Furthermore, the available space is increasingly reduced because of additional display devices, such as the rotational speed, the tank, the navigation devices, etc. On the whole, the display units are therefore becoming smaller and are consequently more difficult to read. For older far-sighted persons or with a quick glance, the displayed information may be difficult to recognize. Similar problems also occur in other areas where generally little space is available for display instruments.

It is an object of the invention to further develop a display device of the above-mentioned type where the information displayed can be absorbed rapidly and reliably.

A core idea of the invention is to change and emphasize the representation of the graphic information in an area where the actual position of the indicator element is. The type of the changes can be freely selected. In particular, it is possible to enlarge the graphic information, to show it with a higher contrast, to indicate it in a different color or to displace it.

For example, normal indicator needles or graphic indicators (such as marks in the scale) can be used as the indicator element.

As a result of the emphasis, a viewer is automatically directed to the area of the scale where the indicator element is situated. As a result, he can rapidly and reliably recognize the information supplied by the indicator element.

In a particularly preferred embodiment of the invention, the emphasized area is selected as a function of input information. In particular, the size and position of the area can be changed. By changing the area, additional information can be transmitted, for example, information concerning due movements of the indicator element.

In addition, or as an alternative, to the change of the area, the display of the graphic information in the area itself can also be changed. These changes may be predefined or be made a function of parameters. If the emphasizing is generated by enlargements of the graphic information, a decrease of the enlargement, for example, can take place with an increasing distance from the indicator element. As an alternative, a change of color or position depending on the distance of the indicator element is also possible.

A particularly advantageous embodiment can be implemented by a video screen display as an indicator unit. On the display, the graphic information can be changed in a simple manner. In contrast to a normal instrument dial indication, it is possible in a simple manner for a video screen display to show numbers or letters in an enlarged fashion, in color or displaced. The display unit, particularly the video screen display, is preferably controlled by a control device. The required parameters are fed to the control device, are processed by it and are transmitted in a processed form to the display unit.

A useful application of the invention is in the area of a vehicle instrument. For example, the speedometer can be constructed in the manner described above.

The invention will be described in the following with respect to a speedometer and with respect to the attached drawings.

#### BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a simple schematic diagram of an embodiment of the invention;

Figure 2 is a representation of a speedometer whose scale is enlarged according to the invention around the indicator element; and

Figures 3a and 3b, as well as Figures 4a and 4b, are representations as shown in Figure 2 where the areas in which the enlargements take place are changed.

## DETAILED DESCRIPTION OF THE DRAWINGS

Figure 1 is a schematic view of a video screen display 10 which is connected with a control device 12. The control device 12 receives input information, such as vehicle speed v and rotational engine speed n.

On the video screen display 10, an indicator 13 is shown which indicates the vehicle speed v on a scale 11 (not shown in Figure 1). In addition to scaling lines, the scale 11 has number presentations which explicitly indicate the speed in km/h. Using the scaling and the numbers on the video screen display 10, the information can be displayed in different sizes and positions.

Conventionally, all information over the entire scale is indicated in a uniform size.

According to the invention, as shown in Figure 2, an area B is defined around the actual position of the indicator 13, in which the numbers are shown in an enlarged manner (compare Figure 2). The size of the enlargement depends on the distance of the respective number from the momentary indicator position. According to Figure 2, number 80 is shown to be the largest and number 60 is the second largest. All other numbers have the normal size. The area B is determined by the control device 12 on the basis of the input parameters v and n and is placed symmetrically around the actual indicator position.

Naturally, the emphasizing on the video screen display can also be implemented by shifts of the information, color changes or a higher contrast.

As a result of the emphasis, a driver, when briefly looking at the speedometer, is automatically directed to the enlarged area so that he can easily

and rapidly detect the speed information specified more precisely by the indicator 13.

Figures 3a, 3b, 4a and 4b illustrate how additional information can be transmitted by the selection of the area of emphasis.

In the case of acceleration, the area is shifted toward the higher speeds, as shown in Figure 3a, so that the speeds are emphasized in an area toward which the indicator 13 is moving. In the embodiment according to Figure 3a, the area B starts at the indicator 13 and is oriented toward the higher speeds.

Analogously, during braking operations, the area B is shifted toward lower speeds, as shown in Figure 3b. In this case, the size of the enlargement is again dependent on the distance of the number information from the actual indicator position. On the whole, in the embodiments shown in Fig 3a and 3b, the area is shifted around the actual indicator position depending on the driving dynamics.

However, it is not only the location of the area B that can be changed. The extent or dimension of the area B can also be adjusted. In Figures 4a and 4b, the size of the area of emphasis depends on the extent of the acceleration. In the case of higher acceleration (Figure 4a), the emphasized area B is larger than in the case of less acceleration (Figure 4b).

To this extent, an area of emphasis around the actual indicator position looks ahead toward a future driving speed, so that an acknowledgment can be made concerning the extent of the speed change. This acknowledgment is particularly clear when scale lines are used in addition to the numbers for indicating the prediction (see, for example, Figures 3a and 4b).

On the whole, in the case of the above-mentioned embodiments, also when a display surface is small, important information can be displayed such that it can be absorbed at a brief glance. This is of special interest also for persons who do not have perfect vision.

The present invention can be used wherever a simple and rapid information transmission is important in the case of a display device. In this respect, the invention is not limited to the present embodiment.

# DISPLAY DEVICE AND METHOD

# BACKGROUND AND SUMMARY OF THE INVENTION

The invention relates to a display device [according to the preamble of Claim 1] and a display method.

Display devices with scales, which graphically display information, are used in all fields of technology and inform people of many different conditions of machines and equipment and about many different circumstances. A very narrow application [range] involves the vehicle [field], where vehicle operating conditions are provided to the vehicle operator by [means of] display devices. Although [the present invention] it will be described relative to this field, [this description] the present invention should not be so limited [limiting].

[More or less] How much space for the transmission of information is available depending on the local situations and the extent of the display. In the case of vehicles, for example, an increasing number of scale marks must be shown in the area of speedometer readings as a result of higher [maximal] maximum speeds. Furthermore, the available space is increasingly reduced because of additional display devices, such as the rotational speed, the tank, the navigation devices, etc. On the whole, the display units are therefore becoming smaller and are consequently more difficult to read. [In the case of] For older far-sighted persons or [at a short] with a quick glance, [problems arise with respect to the recognition] the displayed information may be difficult to

recognize. Similar problems also occur in other areas where generally little space is available for display instruments.

It is an object of the invention to further develop a display device of the [initially] <u>above-mentioned</u> type [in that] <u>where</u> the information displayed [thereby] can be absorbed rapidly and reliably.

[This object is achieved by means of the characteristics indicated in Claim 1].

A core idea of the invention is to change and emphasize the representation of the graphic information in an area [in order to change and emphasize] where the actual position of the indicator element is [with respect to the normal representation]. The type of the changes can be freely selected. In particular, it is possible to enlarge the graphic information, to [image] show it with a higher contrast, to indicate it in a different color or to displace it.

For example, normal indicator needles or graphic indicators[,] (such as marks in the scale) can be used as the indicator element.

As a result of the emphasis, a viewer is automatically directed to the area of the scale [in which] where the indicator element is situated. As a result, he can [particularly] rapidly and reliably recognize the information supplied by the indicator element.

[A] In a particularly preferred embodiment of the invention, [is characterized in that] the <u>emphasized</u> area [in which the emphasizing takes place] is selected as a function of input information. In particular, the size and position of the area can be changed. By changing the area, additional

information can be transmitted, for example, information concerning due movements of the indicator element.

In addition, or as an alternative, to the change of the area, the display of the graphic information in the area itself can also be changed. These changes may be predefined or be made a function of parameters. If the emphasizing is generated by enlargements of the graphic information, a decrease of the enlargement, for example, can take place with an increasing distance from the indicator element. As an alternative, a change of color or position depending on the distance of the indicator element is also possible.

A particularly advantageous embodiment can be implemented by [means of] a video screen display as an indicator unit. On the display, the graphic information can be changed in a simple manner. In contrast to a normal instrument dial indication, [in the case of a display], it is possible in a simple manner for a video screen display to show numbers or letters in an enlarged fashion, in color or displaced. The display unit, particularly the video screen display, is preferably controlled by a control device. The required parameters are fed to the control device, are processed by it and are transmitted in a processed form to the display unit.

A useful [method of] application of the invention [exists in the case] is in the area of a vehicle instrument. For example, the speedometer can be constructed in the manner described above.

The invention will be described in the following with respect to a speedometer and with respect to the attached drawings.

# BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a simple schematic diagram of an embodiment of the invention[.];

Figure 2 is a representation of a speedometer whose scale is enlarged according to the invention around the indicator element; <u>and</u>

Figures 3a and 3b, as well as Figures 4a and 4b, are representations as shown in Figure 2[, in which case] where the areas in which the enlargements take place are changed.

## DETAILED DESCRIPTION OF THE DRAWINGS

Figure 1 is a schematic view of a video screen display 10 which is connected with a control device 12. The control device 12 receives input information, [specifically in the present case, the] such as vehicle speed v and [the] rotational engine speed n.

On the video screen display 10, an indicator 13 is shown which indicates the vehicle speed v on a scale 11 (not shown in Figure 1). In addition to scaling lines, the scale 11 has number presentations which explicitly indicate the speed in km/h. [By generating] <u>Using</u> the scaling and the numbers on the video screen display 10, the information can be [selected] <u>displayed</u> in [all] different sizes and positions.

Conventionally, all information over the entire scale is indicated in a uniform size.

[In a manner according] According to the invention, as shown [indicated] in Figure 2, an area B is defined around the actual position of the indicator 13, in which the numbers are shown in an enlarged manner (compare Figure 2). [In this case, the] The size of the enlargement depends on the distance of the respective number [information] from the momentary indicator position.

According to Figure 2, number 80 is shown to be the largest and number 60 is the second largest. All other numbers have the normal size. [Area] The area B is determined [in] by the control device 12 on the basis of the input parameters v and n and is [distributed] placed symmetrically around the actual indicator position.

Naturally, the emphasizing on the video screen display can also be implemented by shifts of the information, color changes or a higher contrast.

As a result of the emphasis, a driver['s glance], when briefly looking at the speedometer, is automatically directed to the enlarged area so that he can easily and rapidly detect the speed information specified more precisely by the indicator 13.

[By means of] Figures 3a, 3b, 4a and 4b[, it is illustrated] <u>illustrate</u> how additional information can be transmitted by the selection of the area of [the] emphasis.

In the case of acceleration[s], the area is shifted toward the higher speeds, as shown in Figure 3a [(compare Figure 3a)], so that the speeds are emphasized in an area toward which the indicator 13 is moving. In the embodiment

according to Figure 3a, the area B starts at the indicator 13 and is oriented toward the higher speeds.

Analogously, during braking operations, the area B is shifted toward lower speeds, as shown in Figure 3b [(compare Figure 3b)]. In this case, the size of the enlargement is again dependent on the distance of the number information from the actual indicator position. On the whole, in the embodiments [according to] shown in Fig 3a and 3b, the area is shifted [from its position round] around the actual indicator position depending on the driving dynamics.

However, it is not only the location of the area <u>B</u> that can be changed. The extent or dimension of the area B can also be adjusted. In Figures 4a and 4b, [a representation is selected, in the case of which] <u>the</u> size of the area of [the] emphasis depends on the extent of the acceleration. In the case of higher acceleration[s] (Figure 4a), [an emphasizing is carried out in a larger] <u>the</u> emphasized area B <u>is larger</u> than in the case of [a] less [high] acceleration ([compare] Figure 4b).

To this extent, an area of emphasis [shifted] around the actual indicator position [is a looking] <u>looks</u> ahead toward a future driving speed, so that an acknowledgment can be made concerning the extent of the speed change. This acknowledgment is particularly clear when scale lines are used in addition to the numbers for indicating the prediction ([compare,] <u>see</u>, for example, Figures 3a and 4b).

On the whole, in the case of the above-mentioned embodiments, also when a display surface is small, important information [to be indicated] can be

displayed such that it can be absorbed [also] at a brief glance. This is of special interest also for persons who do not have perfect vision.

The present invention can be used wherever a simple and rapid information transmission is important in the case of a display device. In this respect, the invention is not limited to the present embodiment.

# ABSTRACT OF THE DISCLOSURE

A display device includes having a display unit which comprises a scale with graphic information and an indicator element which can be aligned as a function of at least one input parameter with a position of the scale. In order to ensure a better readability particularly in the case of small display devices, the display of the graphic information is changed in an area around the momentary position of the indicator element in comparison to a normal display.

# DISPLAY DEVICE

The invention relates to a display device according to the preamble of Claim 1.

Display devices with scales, which graphically display information, are used in all fields of technology and inform people of many different conditions of machines and equipment and about many different circumstances. A very narrow application range involves the vehicle field, where vehicle operating conditions are provided to the vehicle operator by means of display devices. Although the present invention will be described relative to this field, this description should not be limiting.

More or less space for the transmission of information is available depending on local situations and the extent of the display. In the case of vehicles, for example, an increasing number of scale marks must be shown in the area of speedometer readings as a result of higher maximal speeds. Furthermore, the available space is increasingly reduced because of additional display devices, such as the rotational speed, the tank, the navigation devices, etc. On the whole, the display units are therefore becoming smaller and are consequently more difficult to read. In the case of older far-sighted persons or at a short

glance, problems arise with respect to the recognition. Similar problems also occur in other areas where generally little space is available for display instruments.

It is an object of the invention to further develop a display device of the initially mentioned type in that the information displayed thereby can be absorbed rapidly and reliably.

This object is achieved by means of the characteristics indicated in Claim 1.

A core idea of the invention is the representation of the graphic information in an area in order to change and emphasize the actual position of the indicator element with respect to the normal representation. The type of the changes can be freely selected. In particular, it is possible to enlarge the graphic information, to image it with a higher contrast, to indicate it in a different color or to displace it.

For example, normal indicator needles or graphic indicators, (such as marks in the scale) can be used as the indicator element.

As a result of the emphasis, a viewer is automatically

directed to the area of the scale in which the indicator element is situated. As a result, he can particularly rapidly and reliably recognize the information supplied by the indicator element.

A particularly preferred embodiment of the invention is characterized in that the area in which the emphasizing takes place is selected as a function of input information. In particular, the size and position of the area can be changed. By changing the area, additional information can be transmitted, for example, information concerning due movements of the indicator element.

In addition or as an alternative to the change of the area, the display of the graphic information in the area itself can also be changed. These changes may be predefined or be made a function of parameters. If the emphasizing is generated by enlargements of the graphic information, a decrease of the enlargement, for example, can take place with an increasing distance from the indicator element. As an alternative, a change of color or position depending on the distance of the indicator element is also possible.

A particularly advantageous embodiment can be implemented by means of a video screen display as an indicator unit. On the

display, the graphic information can be changed in a simple manner. In contrast to a normal instrument dial indication, in the case of a display, it is possible in a simple manner to show numbers or letters in an enlarged fashion, in color or displaced. The display unit, particularly the video screen display, is preferably controlled by a control device. The required parameters are fed to the control device, are processed by it and are transmitted in a processed form to the display unit.

A useful method of application of the invention exists in the case of a vehicle instrument. For example, the speedometer can be constructed in the manner described above.

The invention will be described in the following with respect to a speedometer and with respect to the attached drawings.

Figure 1 is a simple schematic diagram of an embodiment of the invention.

Figure 2 is a representation of a speedometer whose scale is enlarged according to the invention around the indicator element;

Figures 3a and 3b as well as
Figures 4a and 4b are representations as in Figure 2, in

which case the areas in which the enlargements take place are changed.

Figure 1 is a schematic view of a video screen display 10 which is connected with a control device 12. The control device 12 receives input information, specifically in the present case, the vehicle speed v and the rotational engine speed n.

On the video screen display 10, an indicator 13 is shown which indicates the vehicle speed v on a scale 11 (not shown in Figure 1). In addition to scaling lines, the scale 11 has number presentations which explicitly indicate the speed in km/h. By generating the scaling and the numbers on the video screen display 10, the information can be selected in all different sizes and positions.

Conventionally, all information over the entire scale is indicated in a uniform size.

In a manner according to the invention indicated in Figure 2, an area B is defined around the actual position of the indicator 13, in which the numbers are shown in an enlarged manner (compare Figure 2). In this case, the size of the enlargement depends on the distance of the respective number information from the momentary indicator position. According to

Figure 2, number 80 is shown to be the largest and number 60 is the second largest. All other numbers have the normal size.

Area B is determined in the control device 12 on the basis of the input parameters v and n and is distributed symmetrically around the actual indicator position.

Naturally, the emphasizing on the video screen display can also be implemented by shifts of the information, color changes or a higher contrast.

As a result of the emphasis, a driver's glance, when briefly looking at the speedometer, is automatically directed to the enlarged area so that he can easily and rapidly detect the speed information specified more precisely by the indicator 13.

By means of Figures 3a, 3b, 4a and 4b, it is illustrated how additional information can be transmitted by the selection of the area of the emphasis.

In the case of accelerations, the area is shifted toward the higher speeds (compare Figure 3a), so that the speeds are emphasized in an area toward which the indicator 13 is moving. In the embodiment according to Figure 3a, the area B starts at the indicator 13 and is oriented toward the higher speeds.

Analogously, during braking operations, the area B is shifted toward lower speeds (compare Figure 3b). In this case, the size of the enlargement is again dependent on the distance of the number information from the actual indicator position. On the whole, in the embodiments according to Fig 3a and 3b, the area is shifted from its position round the actual indicator position depending on the driving dynamics.

However, it is not only the location of the area that can be changed. The extent or dimension of the area B can also be adjusted. In Figures 4a and 4b, a representation is selected, in the case of which size of the area of the emphasis depends on the extent of the acceleration. In the case of higher accelerations (Figure 4a), an emphasizing is carried out in a larger area B than in the case of a less high acceleration (compare Figure 4b).

To this extent, an area of emphasis shifted around the actual indicator position is a looking ahead toward a future driving speed, so that an acknowledgment can be made concerning the extent of the speed change. This acknowledgment is particularly clear when scale lines are used in addition to the numbers for indicating the prediction (compare, for example, Figures 3a and 4b).

On the whole, in the case of the above-mentioned embodiment,

also when a display surface is small, important information to be indicated can be displayed such that it can be absorbed also at a brief glance. This is of special interest also for persons who do not have perfect vision.

The present invention can be used wherever a simple and rapid information transmission is important in the case of a display device. In this respect, the invention is not limited to the present embodiment.

#### CLAIMS:

- 1. Display device having a display unit (10) which comprises a scale with graphic information (11) and an indicator element (13) which can be aligned as a function of at least one input parameter with a position of the scale (11), characterized in that the display of the graphic information in an area (B) around the momentary position of the indicator element (13) is emphasized in comparison to the normal display.
- 2. Display device according to Claim 1, characterized in that the area (B) can be selected as a function of input information  $(n,\ v)$ .
  - 3. Display device according to Claim 1 or 2,

characterized in that the display of the graphic information within this area (B) can be selected in a defined manner.

- 4. Display device according to one of the preceding claims, characterized in that the change is defined by an enlargement, a different contrast, a different color and/or a shift.
- 5. Display device according to one of the preceding claims, characterized in that a control device (12) is provided which receives the input parameters (v, n) and is connected with the display unit (10).
- 6. Display device according to one of the preceding claims, characterized in that a video screen display is used as the display unit (10).
- 7. Display device according to one of the preceding claims, characterized in that the display unit (10) is constructed in the shape of a round instrument.
- 8. Display device according to one of the preceding claims, characterized in that the graphic information is letter and/or number information.
  - 9. Display device according to one of the preceding claims,

characterized in that the display unit (10) is a speedometer of a vehicle.

Display Device

#### ABSTRACT:

The invention relates to a display device having a display unit which comprises a scale with graphic information and an indicator element which can be aligned as a function of at least one input parameter with a position of the scale.

In order to ensure a better readability particularly in the case of small display devices, it is suggested to change the display of the graphic information in an area around the momentary position of the indicator element in comparison to a normal display.

PCT/EP00/08316 WO 01/23205

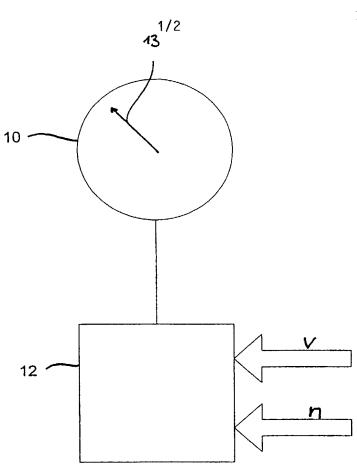
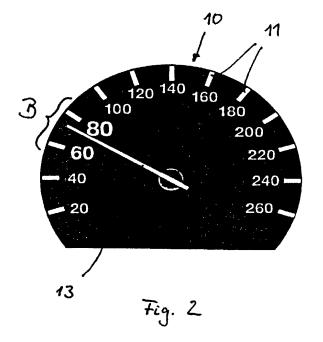


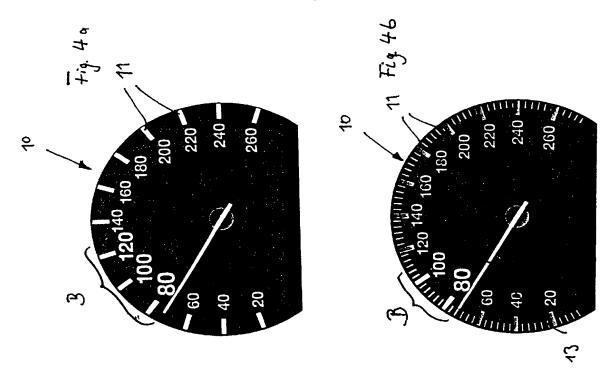
Fig. 1

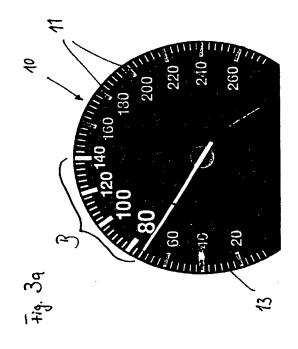


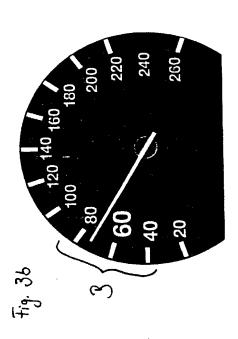
WO 01/23205

PCT/EP00/08316

2/2







# DECLARATION AND POWER OF ATTORNEY

(For Use with Application Data Sheet) As the below named inventor(s), I/we declare that: This declaration is directed to: The attached application, or International Application No. PCT/EP00/08316, filed on 26 August 2000, X \_\_\_ as amended on \_\_\_\_ (if applicable); I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought; I/we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above; I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including material information which became available between the filing date of the prior application and the National or PCT International filing date of the continuation-in-part application if applicable: application, if applicable; I/we hereby appoint the practitioners at CROWELL & MORING L.L.P., whose Customer Number is: as my/our attorneys to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith; and All statements made herein of my/our own knowledge are true; all statements made herein on an statements made nerein of my/our own knowledge are true, an statements made nerein of information and belief are believed to be true, and further these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon. FULL NAME(S) of INVENTOR(S) Date: 12, 3, 2002 Signature: Hermann KUENZNER Inventor one: Federal Republic of Germany Citizen of: Date: Signature: Michael HEIMRATH Inventor two: Federal Republic of Germany Citizen of: Date: Signature: Swantje ROESSNER Inventor three: Federal Republic of Germany Citizen of: Signature:

\_\_ Additional Inventors on Attached sheet if checked

Inventor four:

Citizen of:

Volker HELLWIG

Federal Republic of Germany

applicant Data Sheet

# DECLARATION AND POWER OF ATTORNEY (For Use with Application Data Sheet)

As the below named inventor(s). I/we declare that:

	715 the below hamed inventor(s), 2 we are the	
	This declaration is directed to:	
-	The attached application, or  International Application No. PCT/EF  as amended on(i	<u>P00/08316,</u> filed on <u>26 August 2000,</u> f applicable);
	I/we believe that I/we am/are the original and first is claimed and for which a patent is sought;	nventor(s) of the subject matter which is
	I/we have reviewed and understand the contents of the claims, as amended by any amendment specification.	any referred to above,
	I/we acknowledge the duty to disclose to the United information known to me/us to be material to pa including material information which became avail application and the National or PCT Internationa application, if applicable;	able between the filing date of the prior lifting date of the continuation-in-part
	I/we hereby appoint the practitioners at CROWEL Number is:  23911 PATENT TRADEMARK OF	
as my/our attorneys to prosecute the application identified above, and to transaction the United States Patent and Trademark Office connected therewith; and		
	All statements made herein of my/our own knowledge information and belief are believed to be true, and in the knowledge that willful false statements an imprisonment, or both, under 18 U.S.C. 1001, a application or any patent issuing thereon.	ge are true; all statements made herein on further these statements were made with ad the like are punishable by fine or and may jeopardize the validity of the
	FULL NAME(S) of INVENTOR(S)	
	Signature: Inventor one: Hermann KUENZNER Citizen of: Federal Republic of Germany	Date:
2-00	Signature: Michael HEIMRATH. Citizen of: Federal Republic of Germany	Date: 11-03.03
	Signature: Inventor three: Swantje ROESSNER Citizen of: Federal Republic of Germany	Date:
	Signature: Inventor four: Volker HELLWIG Citizen of: Federal Republic of Germany Additional Inventors on Attached sheet if checked	Date:

# DECLARATION AND POWER OF ATTORNEY (For Use with Application Data Sheet)

As the below	named inventor(s), I/we declare that:		
This declara	tion is directed to:		
X	The attached application, or International Application No. <u>PCT/EF</u> as amended on (i	f applicable);	
I/we believe claimed and	that I/we am/are the original and first i for which a patent is sought;	nventor(s) of the subject matter which is	
I/we have re the claims, a	viewed and understand the contents of the as amended by any amendment specifica	he above-identified application, including ally referred to above;	
information including m application application,	known to me/us to be material to pa aterial information which became avail and the National or PCT Internationa if applicable;	States Patent and Trademark Office all tentability as defined in 37 CFR 1.56, able between the filing date of the prior l filing date of the continuation-in-part	
I/we hereby Number is:	appoint the practitioners at CROWEL 23911	L & MORING L.L.P., whose Customer	
as my/our a in the Unite	ttorneys to prosecute the application ide ed States Patent and Trademark Office	ntified above, and to transact all business connected therewith; and	
the knowle	All statements made herein of my/our own knowledge are true; all statements made herein on information and belief are believed to be true, and further these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.		
FULL NAN	ME(S) of INVENTOR(S)		
Signature: Inventor or Citizen of:		Date:	
Signature: Inventor to Citizen of:		Date:	
Signature: Inventor t Citizen of:	To the population	Date: <u>18.3.02</u>	
Signature Inventor f Citizen of:	our: Volker HELLWIG	Date:	

\_\_ Additional Inventors on Attached sheet if checked

# DECLARATION AND POWER OF ATTORNEY

(For Use with Application Data Sheet)

As the below named inventor(s), I/we declare that: This declaration is directed to: The attached application, or International Application No. PCT/EP00/08316, filed on 26 August 2000, X as amended on \_\_\_\_\_ (if applicable); I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought; I/we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above; I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including material information which became available between the filing date of the prior application and the National or PCT International filing date of the continuation-in-part application, if applicable; I/we hereby appoint the practitioners at CROWELL & MORING L.L.P., whose Customer Number is: PATENT TRADEMARK OFFICE as my/our attorneys to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith; and All statements made herein of my/our own knowledge are true; all statements made herein on information and belief are believed to be true, and further these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon. FULL NAME(S) of INVENTOR(S) Date: Signature: Hermann KUENZNER Inventor one: Federal Republic of Germany Citizen of: Signature: Date: Michael HEIMRATH Inventor two: Federal Republic of Germany Citizen of: Date: Signature: Swantie ROESSNER Inventor three: Citizen of: Federal Republic of Germany Date: 24.03.002

Federal Republic of Germany Citizen of: Additional Inventors on Attached sheet if checked

Volker HELLWIG

Signature:

Inventor four:

# United States Patent & Trademark Office Office of Initial Patent Examination -- Scanning Division



Application deficien	cies found during	scanning:	
□ Page(s)	of		were not present
for scanning.		(Document title)	<del></del>
ener.			
☐ Page(s)	of		were not present
for scanning.		(Document title)	

Scanned copy is best available. Parts of drawings are dark.